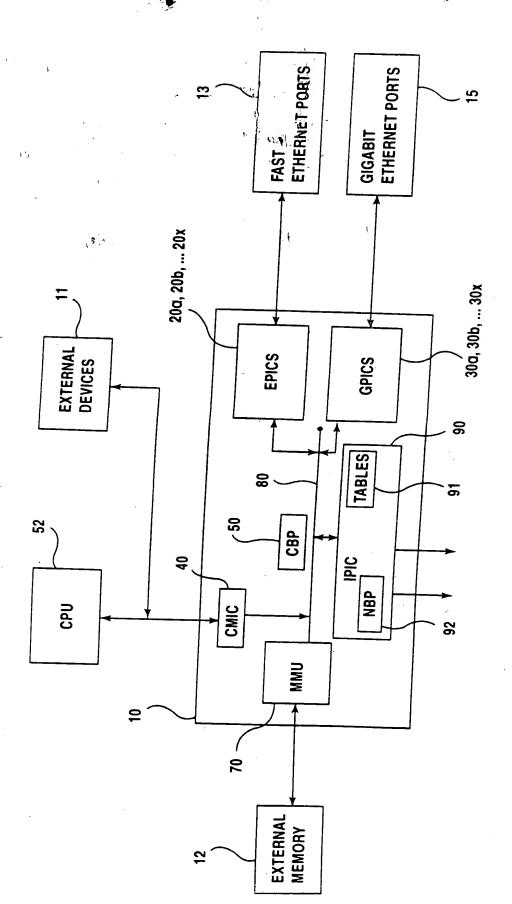
Fig.1



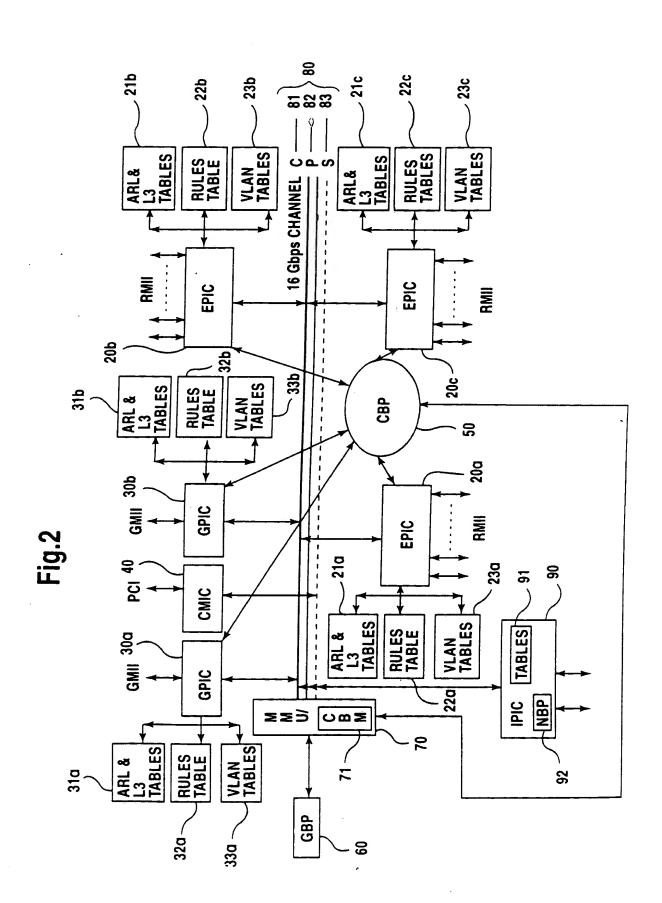
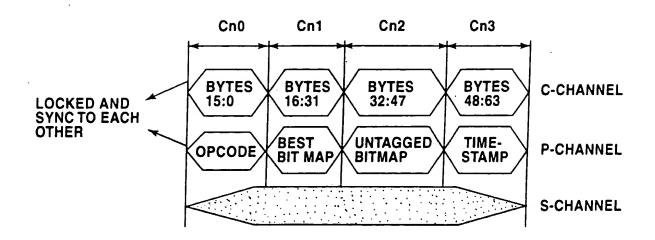


Fig.3



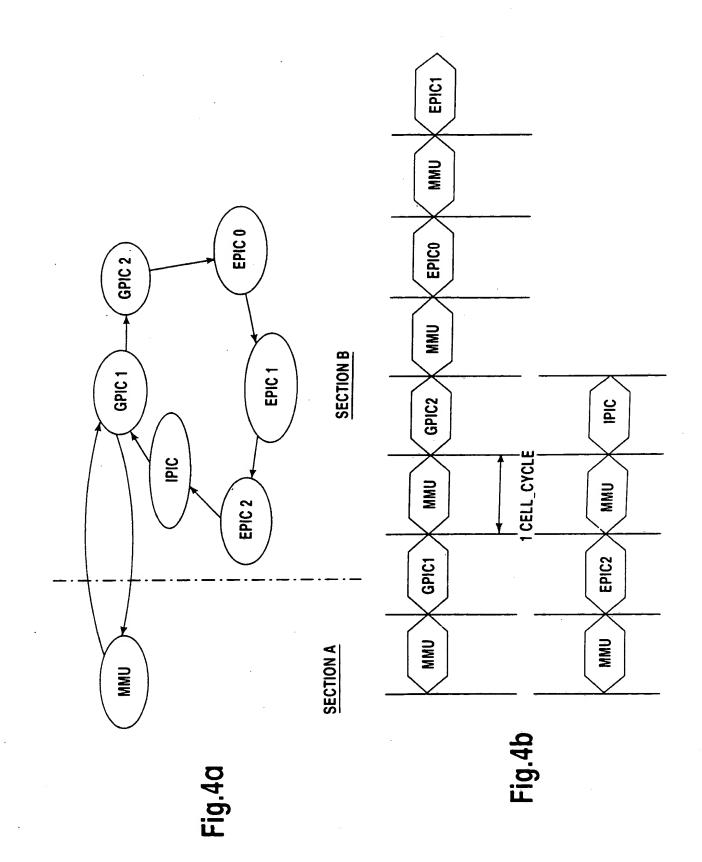


Fig.5

## PROTOCOL CHANNEL MESSAGES

		7 7 7 7															
30	28	26	24	22	20	18	16	14	1	2	10		8	6	4	2	0
OPC	ΙP	RESE		SRC	DEST	PORT	cos	J	S	Ε	CRC	Р	0		-	LEN	
ODE	IPX	RVED	CELL		- 1						4						
					7	•											
62	60	58	56	54	52	50	48	46	4	4	42	4(	) ;	38	36	34	32
	MODULE ID BITMAP																
30	28	26	24	22	20	18	16	14	1:	2	10		3	6	4	2	0
R						Bc /	Mc PO	RTBIT	MAF	•							
62	60	58	56	54	52	50	48	46	44		42	40		8	36	34	32
PF M				NEW I	P CHE	CKSUN	A .		M	M	T-MOD	) ID	T	TO	GID	MOD OPCC	DEC
30	28	26	24	22	20	18	16	14	12		10	8	-	6	4	2	0
U UNTAGGED PORTBITMAP / SRC PORT NUMBER (bit05)																	
62	60	58	56	54	52	50	48	46	44		42	40	3	8	36	34	32
RS	VD	MATC FILTE	HED R			VLA	N ID	-			SF	RC I	PORT		REN	MOTE P	PORT
			·					_									
30	28	26	24	22	20	18	16	14	12	2 ]	10	8		5	4	2	0
CPU OPCODES TIME STAMP																	
62	60	58	56	54	52	50	48	46	44		42	40	3	8	36	34	32
R																	

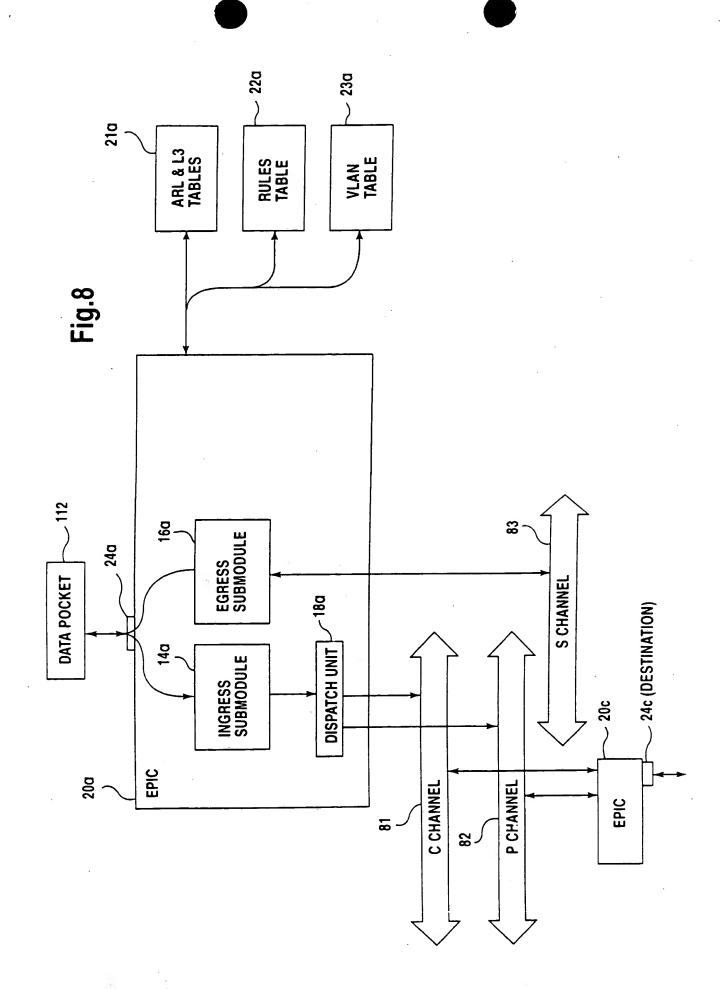
Fig.6

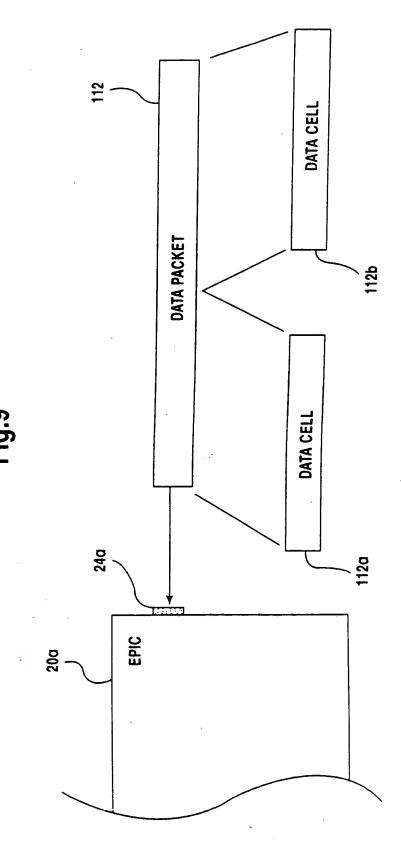
## SIDE BAND CHANNEL MESSAGES

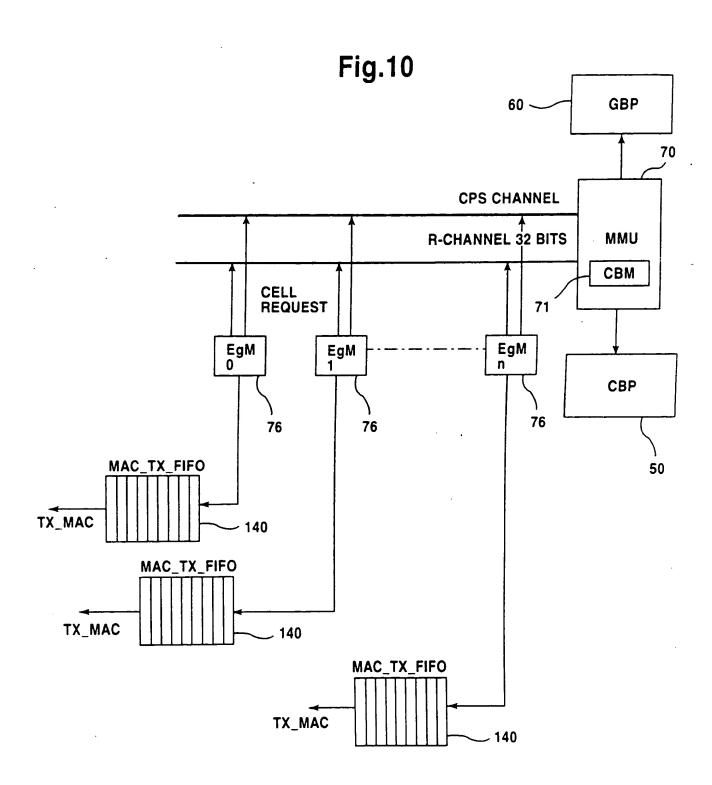
30 28 26	24 22 20	18 16 14	12 10	8 6	4	2 0				
OPCODE DEST PORT / DESTINATION DEVID DATA LEN E EC COS C										
ADDRESS										
DATA										

Fig.7
PRIOR ART

LAYER SEVEN- APPLICATION	
LAYER SIX- PRESENTATION	
LAYER FIVE- SESSION	
LAYER FOUR- TRANSPORT	
LAYER THREE- NETWORK	
LAYER TWO- DATA LINK	
LAYER ONE- PHYSICAL	







## Fig. 11

LINE 0 —	FC   LC   BC/MC   Cpy_cnt (5b)   Cell_length (7b)   CRC (2b)   NC_header (16b)   Src Count (6)   IPX   IP   ITime_Stamp (14b)   O bits (2b)   P   NextCellLen (2b)   CpuOpcode (4b)   Cell_data (0-9B)
LINE 1	Cell_data (10-27) Bytes
LINE 2	Cell_data (28-45) Bytes
LINE 3	Cell_data (45-63) Bytes

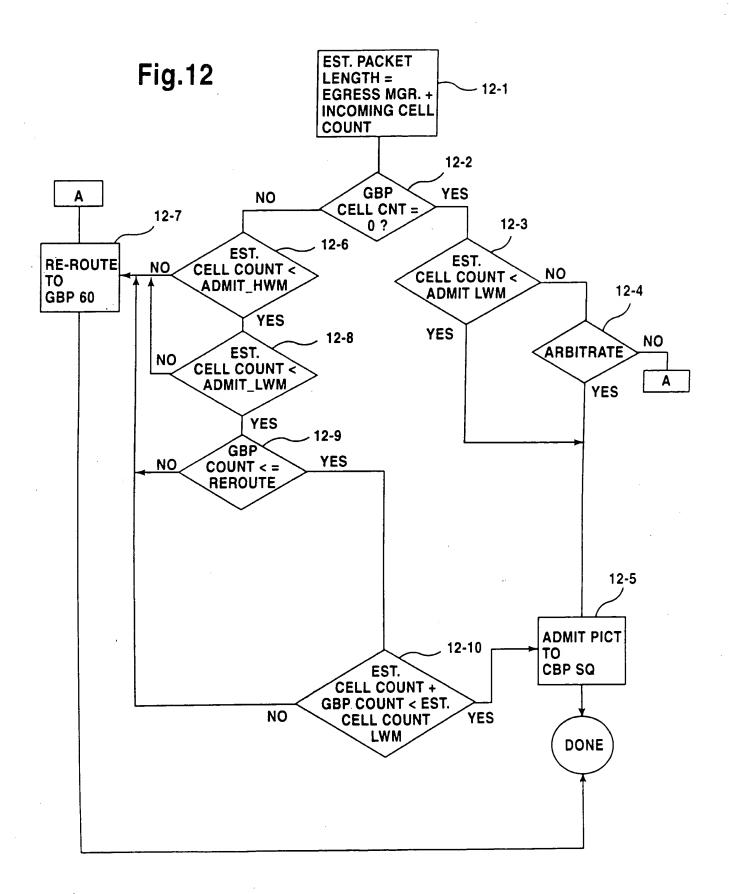


Fig.13

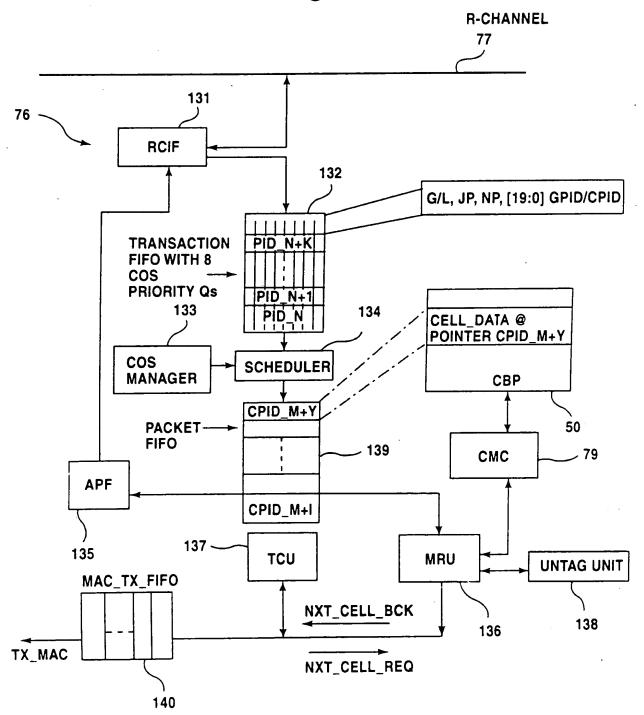


Fig.14

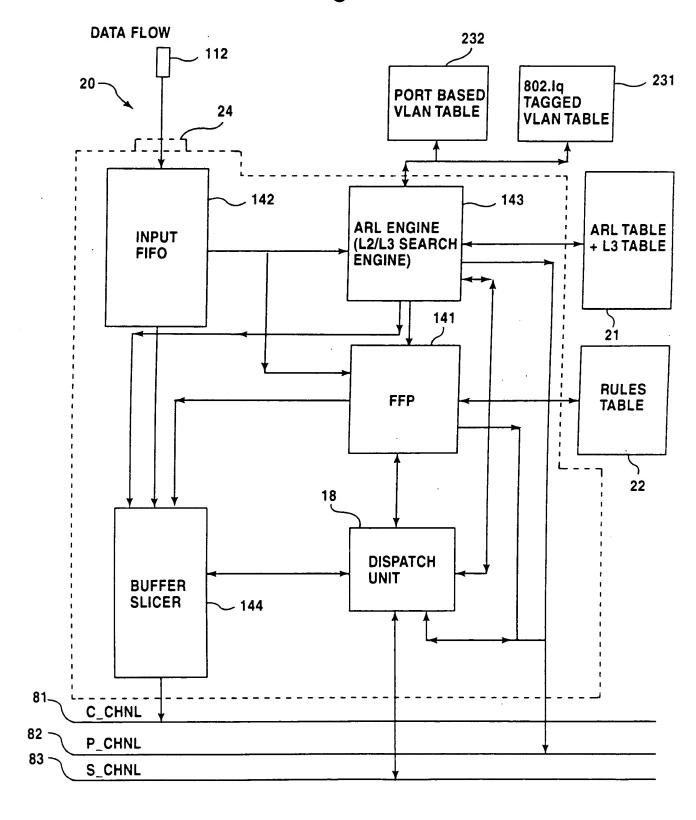
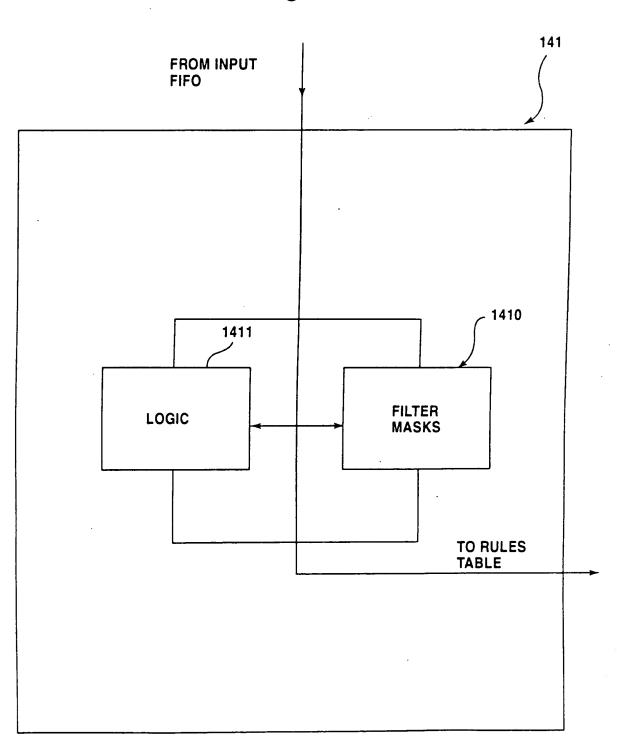
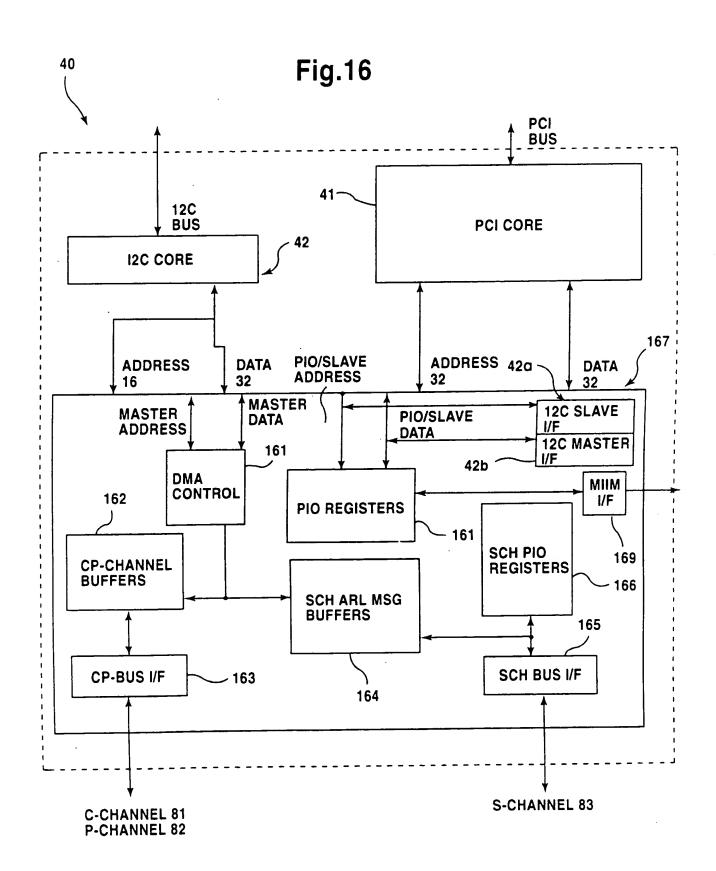


Fig.15





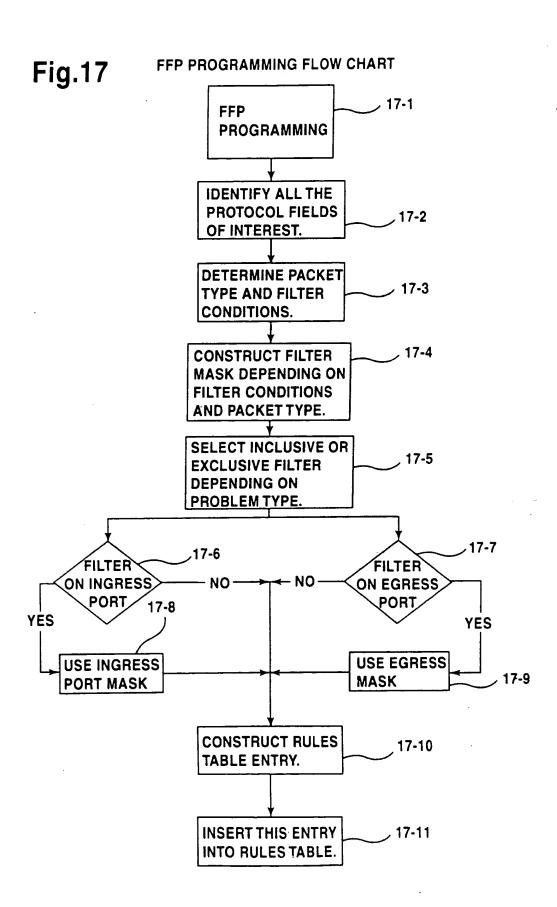


Fig.18

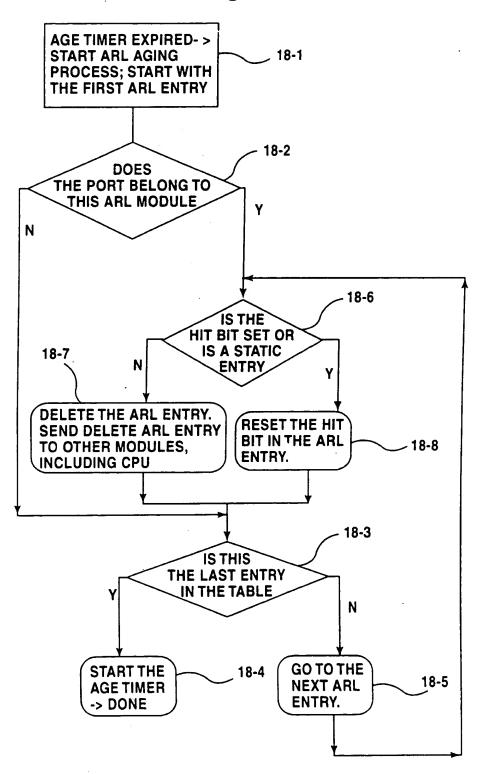
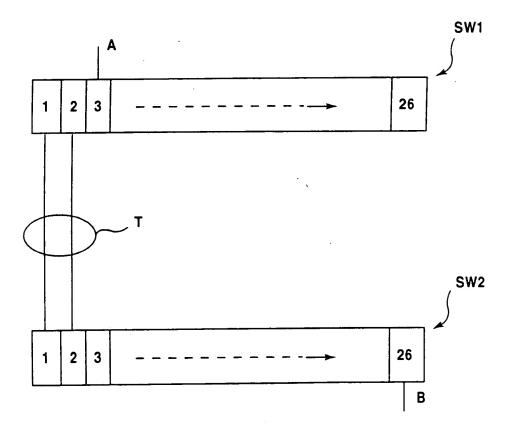
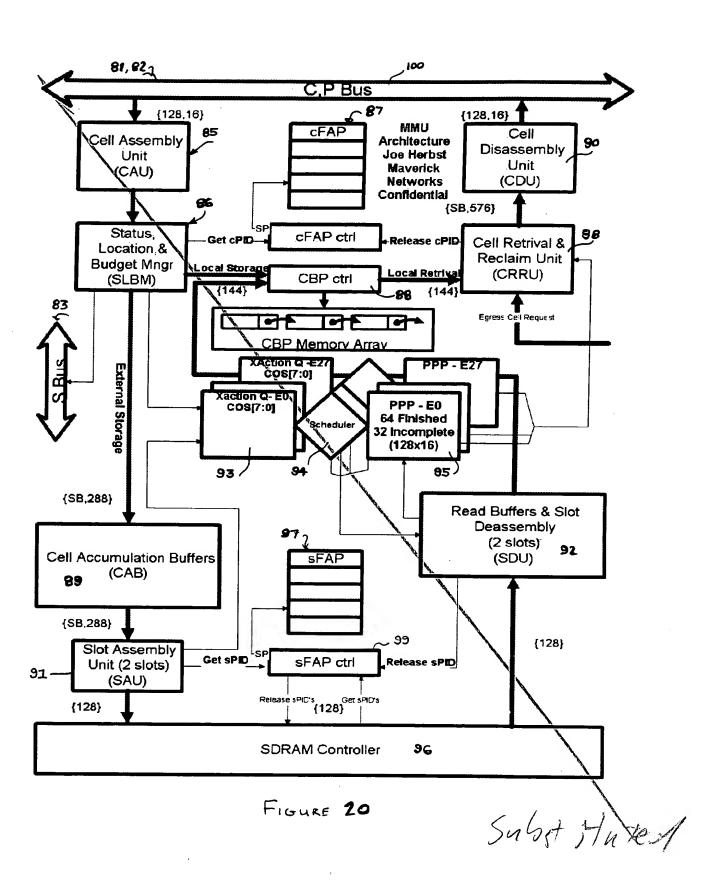


Fig.19





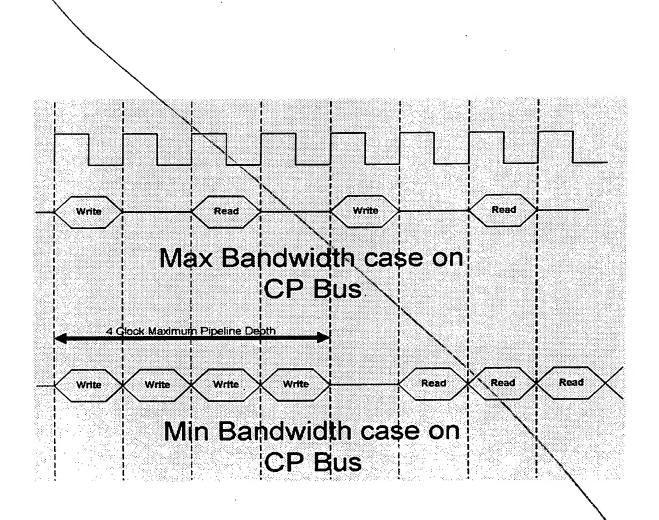


Figure 21

Substituted

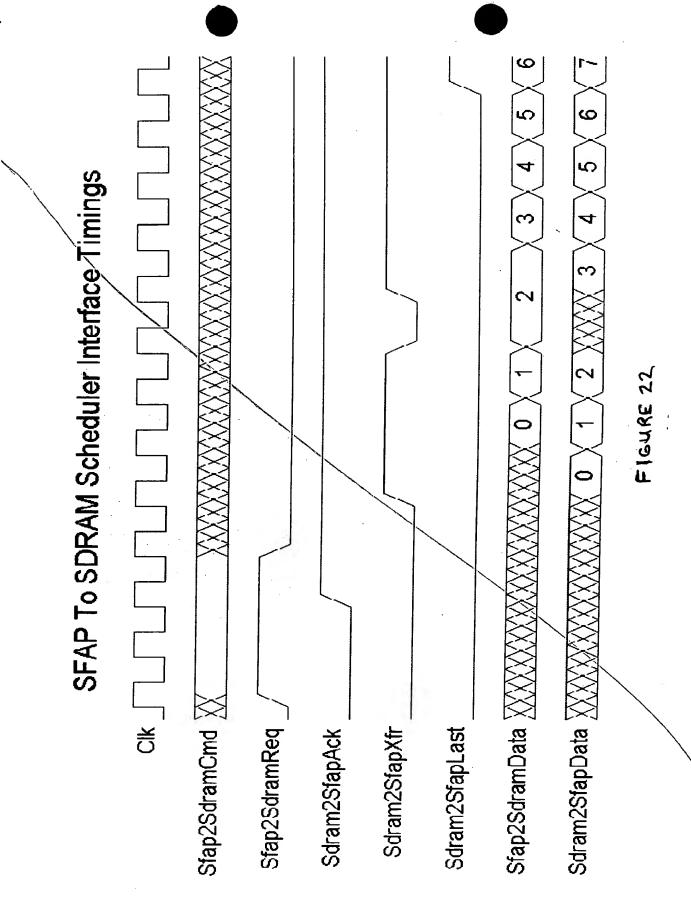


FIGURE 23 SAU to SDRAM Scheduler Data Transfer

imes E imes F imes G imes H imesSdram2SauAddr X $oldsymbol{\mathcal{A}}$  $oldsymbol{\mathcal{$ Sau2SdramDafa XXXXXX A X B X C X Sdram2SauRd

Sdram2SauLast

## SDRAM Scheduler to SDU Data Transfer

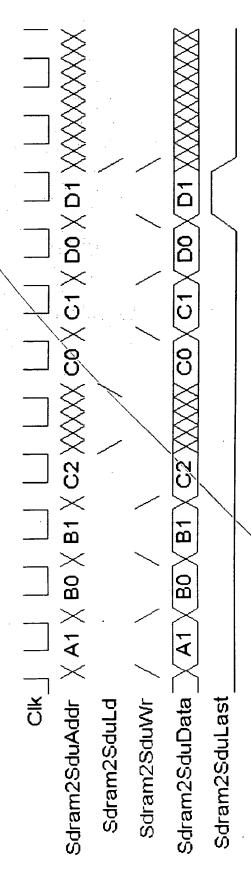
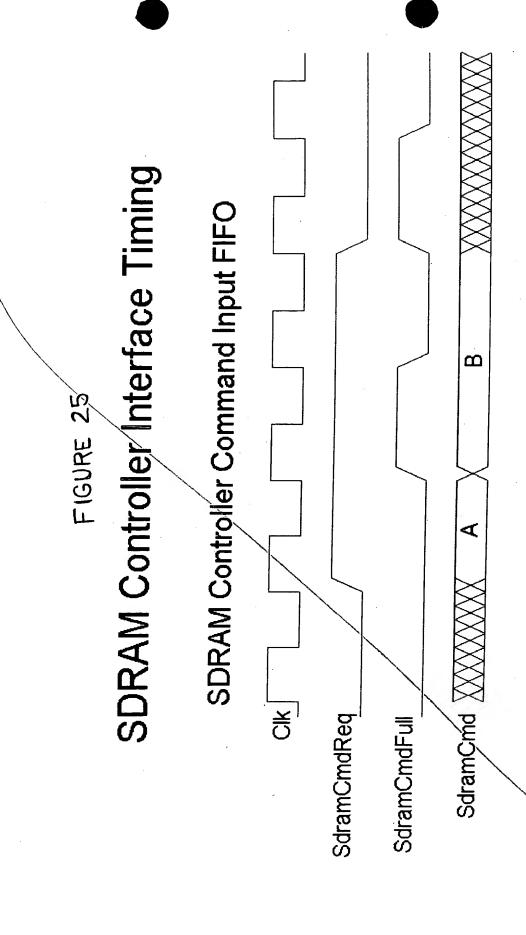
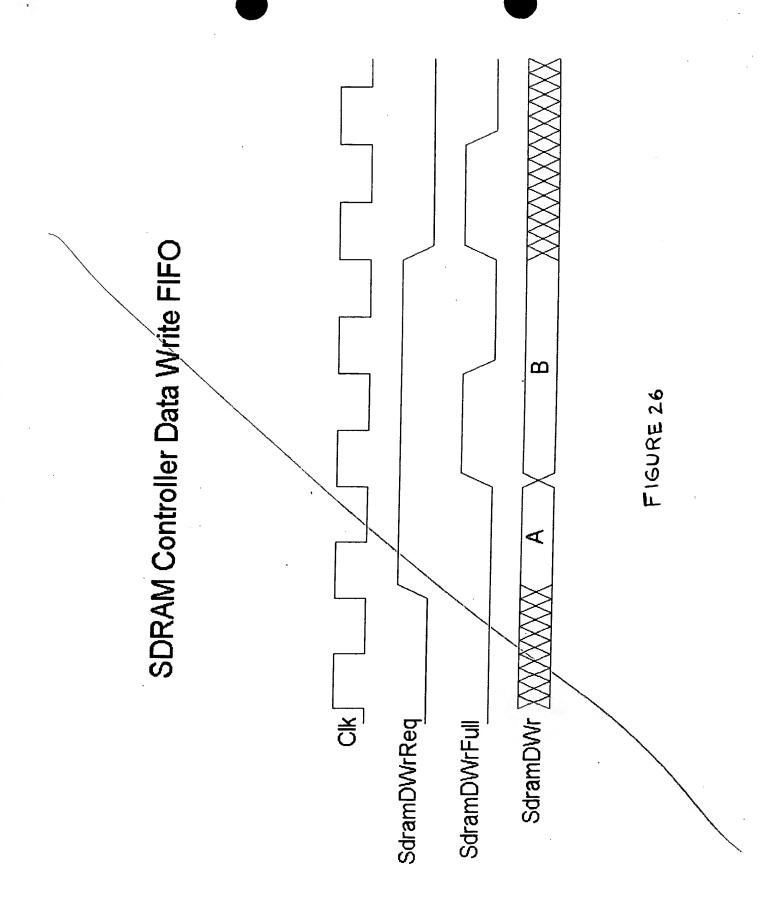


FIGURE 24





Field	Left	Right	Bits
Src	310	306	5
CPUOpcode	305	302	4
BC/MC Bitmap	301	270	32
Cos	269	267	3
Р	266	266	1
FC(S)	265	265	1
LC (E)	264	264	1
CRC	263	262	2
Len (0 = 64)	261	256	6
Ò	255	254	2
BC/MC	253	253	1
Copy Count (0 = 32)	252	248	5
Untagged Bitmap	247	216	32
IP	215	215	1
IPX	214	214	1
Time Stamp \	213	200	14
Cell Data Bytes 24-0	199	0	200
Total			311

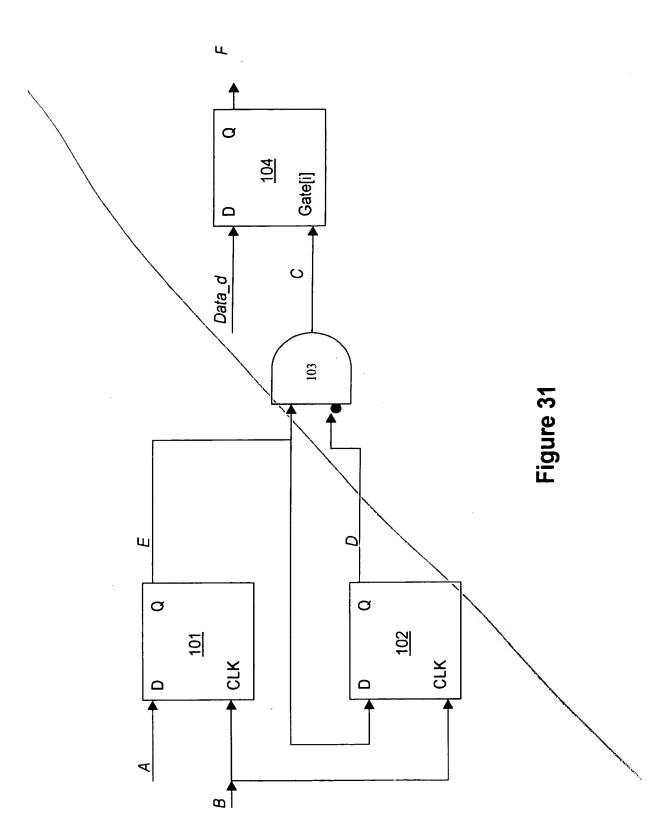
FIGURE 28

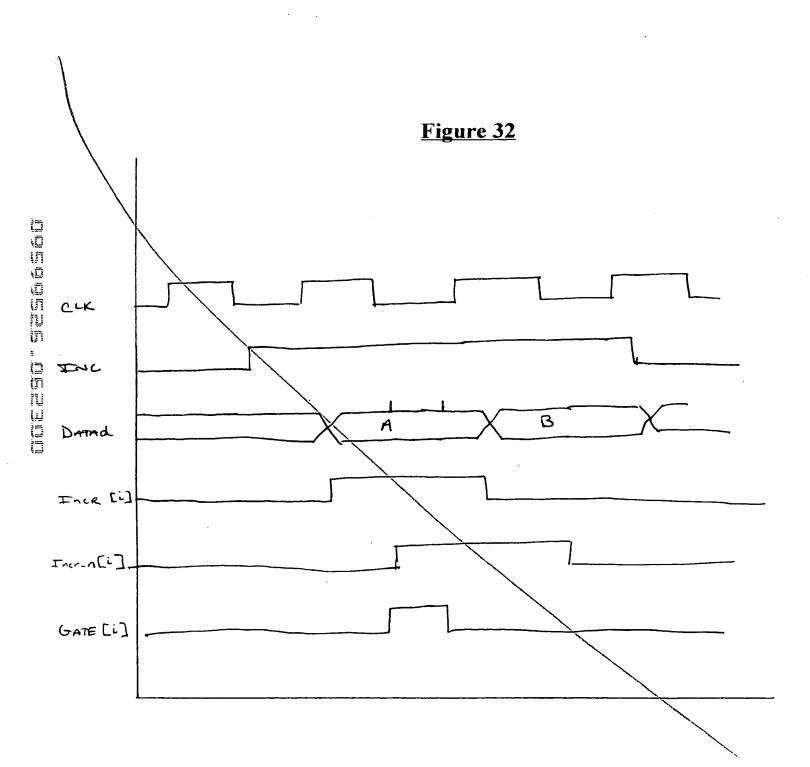
Cell Size	SAU Words	SDRAM Words
0.0	1	2
0.1	1	3
10	2	4
11	2	5

Figure 29

Field	Left	Right	Bits	First Only
Last Slot	313	313	1	X
Next Slot ID	312	297	16	X
Copy Count	296	292	5	X
*EPUOpcode	291	288	4	
Cell`Size	287	286	2	
Р	285	285	11	
FC	284	284	1	
LC	283	283	1	
CRC	282	281	2	
Len	~280	275	6	
0	274	273	2	
BC/MC	272	272	1	
IP	271	<b>\271</b>	1	
IPX	270	270	1	
Time Stamp	269	256`	14	

Figure 30





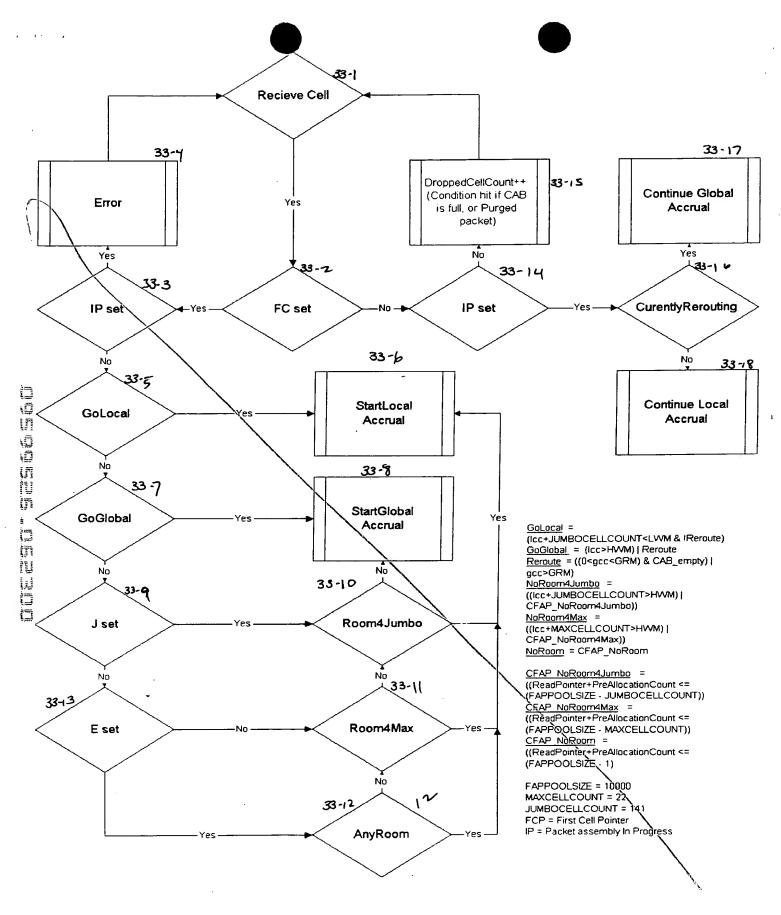
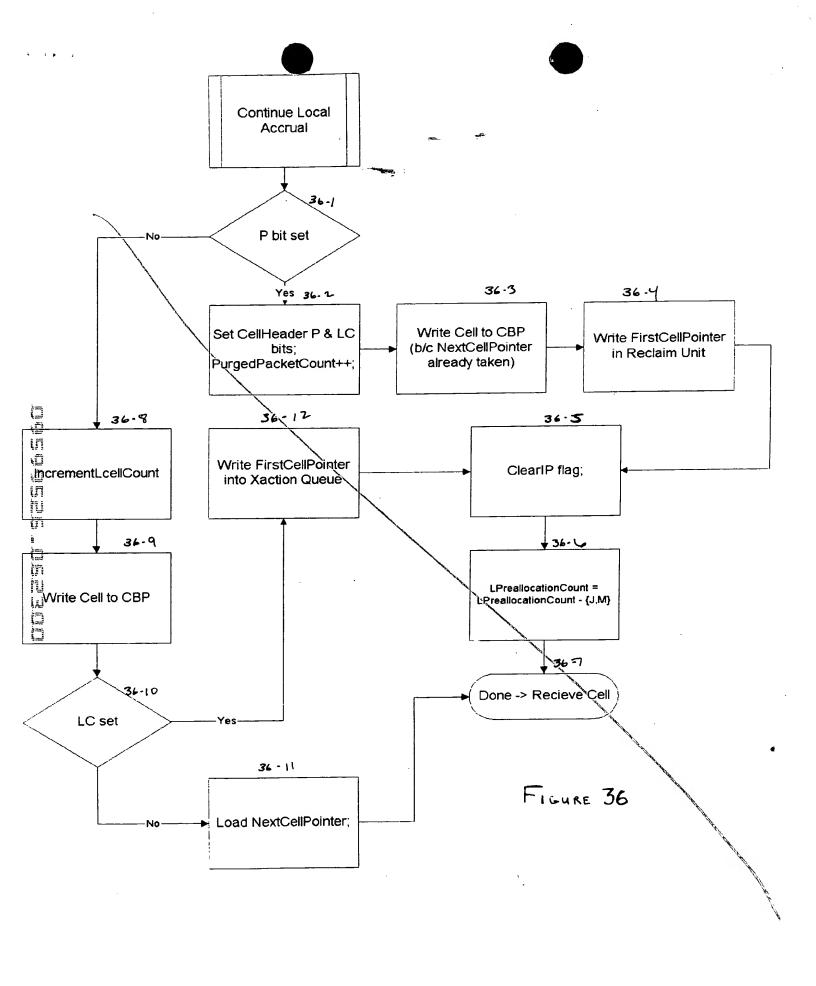
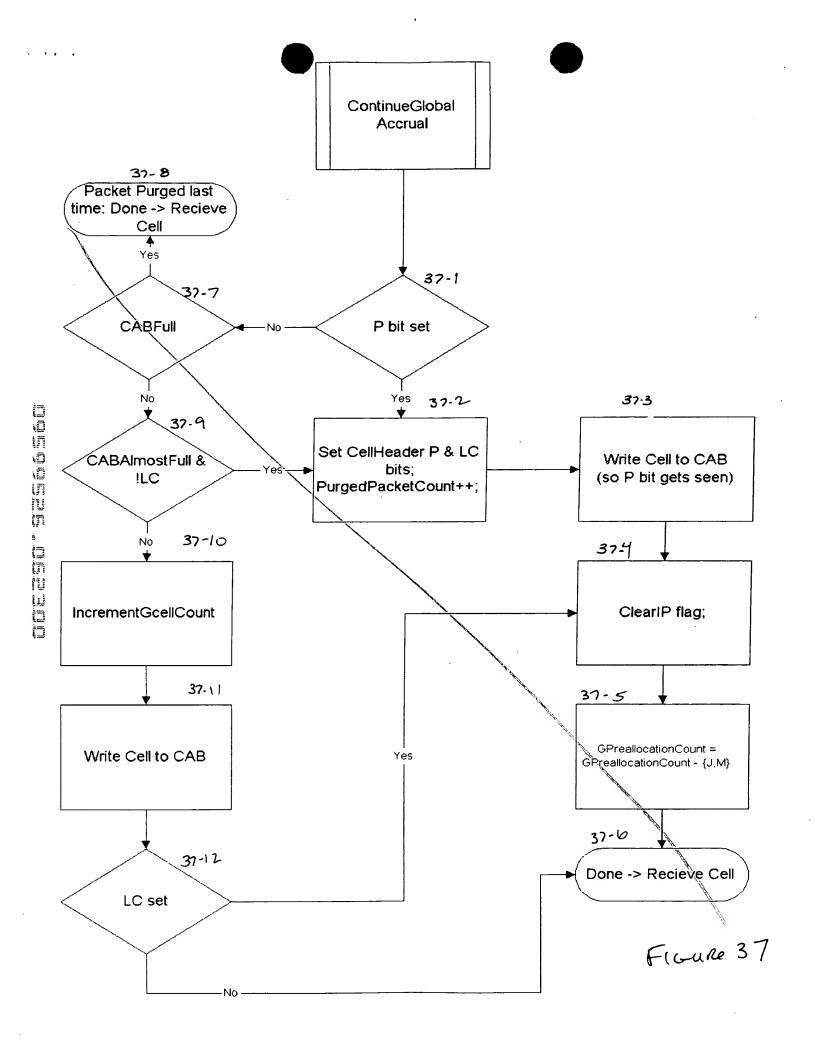


FIGURE 33

The last water was the book start but

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